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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/905,041	07/13/2001	Marc Madou	22727/04096	2217
24024 7590 09/30/2004			EXAMINER	
	LTER & GRISWOLD,	LLP	CHUNDURU, SURYAPRABHA	
800 SUPERIOI SUITE 1400	AVENUE		ART UNIT	PAPER NUMBER
CLEVELAND,	, OH 44114		1637	
			DATE MAILED: 09/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/905,041	MADOU ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Suryaprabha Chunduru	1637				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 Ju	1) Responsive to communication(s) filed on 13 July 2004.					
2a) This action is FINAL . 2b) ⊠ This	is action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 41 and 58-63 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 41 and 58-63 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
, 						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal f 6) Other:					

DETAILED ACTION

1. Applicants' response to the earlier office action filed on July 13, 2004 has been entered.

2. Claim 41 is amended. Claims 42-57 are canceled. New claims 58-63 are added. Thus claims

41, and 58-63 are pending and considered for examination.

Response to Arguments

- 3. Applicants' response to the office action is fully considered and found persuasive.
- 4. With reference to the rejection under 35 USC 102(b), Applicants amendment and arguments are fully considered and the rejection is withdrawn herein in view of the amendment.
- 5. With reference to the rejection under 35 USC 103(a), Applicants amendment and arguments are fully considered and the rejection is withdrawn herein in view of the amendment and new grounds of rejections.

New Grounds of Rejections

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 41, 58-63 are rejected under 35 U.S.C. 102(b) as being anticipated by Neri et al. (WO 97/40142).

Neri et al. teach a synthetic (see page 8, line 10-12) multimeric biopolymer (calmodulin binding peptide ligand) of claim 41, comprising plurality of monomeric units (peptide units) (see

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page 13, line 16-25), wherein a plurality of said multimeric units in said biopolymer comprise a binding region for an analyte (page 13, line 16-25);

Wherein the monomeric units that comprise a binding region for analyte are convalently linked to each other (peptide bonds, reversible) (see page 13, line 16-25);

Wherein the monomeric units comprise a binding region for an analyte generates a signal (column page 12, line 23-37, page 13, line 1-7);

Wherein the signal generated by the monomeric units linked covalently with each other bound to an analyte is greater than the signal generated by the monomeric units that are linked noncovalently linked to each other and bound to an analyte (see page 13, line 35-37, page 14, line 1-16, wherein Fig. 1-3 show the sensograms and dissociation constants of peptides and their binding affinity towards calmodulin).

With regard to claim 58-59, Neri et al. disclose that the multimeric biopolymer comprises at least one calmodulin monomer or a dimmer or multimer (see page 13, line 16-20);

With regard to claim 60, Neri et al. also disclose that the biopolymer changes its three-dimensional conformation in response to binding of a proton (Ca²⁺) from the binding region (see page 6, line 36-38, page 7, line 1-9, page 10, line 29-38);

With regard to claim 61-62, Neri et al. disclose that the biopolymer comprises an enzyme that catalyzes a biochemical reaction, which results in formation of protons (active sites) upon binding and changes three-dimensional conformation (see page 9, line 8-22, line 27-37, page 10, line 35-38, page 6, line 36-38, page 7, line 1-9).

With regard to claim 63, Neri et al. disclose that the biopolymer, comprises 2 (dimer) or more monomeric units (see page 13, line 16-20).

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Thus the disclosure of Neri et al. meets the limitations in the instant claims.

Conclusion

No claims are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suryaprabha Chunduru whose telephone number is 571-272-0783. The examiner can normally be reached on 8.30A.M. - 4.30P.M, Mon - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and - for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Suryaprabha Chunduru September 20, 2004

> JEFFREY FREDMAN PRIMARY EXAMINER